

What is claimed is:

1. A spray pump inspection apparatus for inspecting a spray pump which sprays a liquid out of a container, the spray pump inspection apparatus comprising:
 - a vibration sensor to be positioned adjacent the spray pump; and
 - abnormality detection means which detects spraying abnormality of the spray pump on the basis of a low frequency signal component of not higher than a predetermined frequency contained in a detection signal generated by the vibration sensor when the spray pump is actuated in air.
2. A spray pump inspection apparatus as set forth in claim 1, wherein the abnormality detection means includes low frequency extraction means which extracts the low frequency signal component from the detection signal of the vibration sensor through Fourier analysis.
3. A spray pump inspection apparatus as set forth in claim 1, wherein the vibration sensor is a microphone which detects spray sound of sprayed air.
4. A spray pump inspection apparatus as set forth in claim 1, wherein the vibration sensor detects air sprayed from an ejection port of the spray pump when the spray pump is actuated.
5. A spray pump inspection apparatus as set forth in claim 1, wherein the vibration sensor is positioned adjacent a suction port of the spray pump.
6. A spray pump inspection apparatus as set forth in claim 1, wherein the abnormality detection means includes storage means which stores reference data, and detects the spraying abnormality of the spray pump by comparison between the low frequency signal component and the reference data.
7. A spray pump inspection apparatus as set forth in claim 1, wherein the predetermined frequency is not higher than 100 Hz.

8. A spray pump inspection apparatus as set forth in claim 1, wherein the predetermined frequency is not higher than 50 Hz.
9. A spray pump inspection method for inspecting a spray pump which sprays a liquid out of a container, the spray pump inspection method comprising the steps of:
 - positioning a vibration sensor in the vicinity of the spray pump; and
 - detecting spraying abnormality of the spray pump on the basis of a low frequency signal component of not higher than a predetermined frequency contained in a detection signal generated by the vibration sensor when the spray pump is actuated in air.
10. A spray pump inspection method as set forth in claim 9, wherein the low frequency signal component is extracted from the detection signal of the vibration sensor through Fourier analysis.
11. A spray pump inspection method as set forth in claim 9, wherein the vibration sensor is a microphone which detects spray sound of sprayed air.
12. A spray pump inspection method as set forth in claim 9, wherein the vibration sensor detects air sprayed from an ejection port of the spray pump when the spray pump is actuated.
13. A spray pump inspection method as set forth in claim 9, wherein the vibration sensor is positioned adjacent a suction port of the spray pump.
14. A spray pump inspection method as set forth in claim 9, wherein the spraying abnormality of the spray pump is detected by comparing the low frequency signal component with predetermined reference data.
15. A spray pump inspection method as set forth in claim 9, wherein the predetermined frequency is not higher than 100 Hz.

16. A spray pump inspection method as set forth in claim 9, wherein the predetermined frequency is not higher than 50 Hz.